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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/002,175		12/05/2001	Neal M. Bowen	M4065.0493/P493	M4065.0493/P493 2267	
24998	7590	05/02/2005		EXAMINER		
DICKSTEI 2101 L Stree		IRO MORIN &	OSHINSKY LLP	EDMONDSON,	LYNNE RENEE	
Washington,	,)37		ART UNIT	PAPER NUMBER	
				1725		

DATE MAILED: 05/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	T A - P - 42 - N1		
	Application No.	Applicant(s)	_
Office Action Summer	10/002,175	BOWEN, NEAL M.	
Office Action Summary	Examiner	Art Unit	·
	Lynne Edmondson	1725	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wit	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.7 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a realy within the statutory minimum of thirty will apply and will expire SIX (6) MON e, cause the application to become AB.	eply be timely filed (30) days will be considered timely. FHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on 2/1	<u>5/05</u> .		
2a)⊠ This action is FINAL . 2b)□ Th	nis action is non-final.	•	
Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims			
4)⊠ Claim(s) <u>1-8,10-46 and 48-57</u> is/are pending	in the application.		
4a) Of the above claim(s) is/are withdra	wn from consideration.	•	
5)⊠ Claim(s) <u>1-8 and 10-41</u> is/are allowed.			
6)⊠ Claim(s) <u>42-46 and 48-57</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/oApplication Papers	or election requirement.		
application Fapers9)☐ The specification is objected to by the Examine	\r		
10) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 21 February 2002 is/ard		sated to by the Everiner	
Applicant may not request that any objection to the		·	
11) The proposed drawing correction filed on		• •	
If approved, corrected drawings are required in re	•	Sapproved by the Examiner.	•
12) The oath or declaration is objected to by the Ex	• •		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. §	119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:		• • • • • • • • • • • • • • • • • • • •	
1. Certified copies of the priority document	ts have been received.		
2. Certified copies of the priority document	ts have been received in Ap	oplication No	
 Copies of the certified copies of the prio application from the International But See the attached detailed Office action for a list 	ority documents have been ureau (PCT Rule 17.2(a)).	received in this National Stage	
14) Acknowledgment is made of a claim for domest	·		.1
a) The translation of the foreign language pro			1).
15) Acknowledgment is made of a claim for domest	• •		
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Ir	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)	

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Part of Paper No. 042805

Application/Control Number: 10/002,175

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 42-46 and 48-57 are rejected under 35 U.S.C. 102(a) as being anticipated by Koduri (USPN 6273321 B1).

Koduri teaches a wire bonding apparatus comprising a wire feeding device (capillary, 40) and a mechanism for moving and operating the device for forming multiple bonds (figure 1 and col 3 lines 1-23) via a controlled drive unit (52). The control unit comprises a computer and measuring means for positioning the capillary (col 5 lines 1-46 and col 13 line 49 – col 14 line 35) and is capable of forming bonds at an angle via translational, vertical and rotation movement (col 4 line 50 – col 5 line 3, col 6 lines 3-10 and lines 21-34). The device also comprises a controlled ball forming means (29) (col 5 line 47 – col 6 line 34). See also column Koduri claims 1-5.

3. Claims 42-46 and 48-57 are rejected under 35 U.S.C. 102(b) as being anticipated by Bonham, Jr. (USPN 4445633).

Bonham teaches a wire bonding apparatus comprising a wire feeding device (capillary, 19) and a mechanism for moving and operating the device for forming

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multiple bonds via a controlled drive unit. The control unit comprises a computer and measuring means for positioning the capillary (figure 1 and col 4 line 38 – col 5 line 22) and is capable of forming bonds at an angle (figures 3-5 and col 8 line 34-57). The device also comprises a controlled ball forming means (col 3 line 41 – col 4 line 11). See also column Bonham claims 1-7 and 11.

Response to Arguments

- 4. In response to applicant's argument that Koduri teaches a method of forming single wires between respective bonds and leads rather than forming first and second wire bonds electrically connected to the second surface or formation of a second bond on the conductive bump, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See *In re Casey*, 370 F.2d 576, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 312 F.2d 937, 939, 136 USPQ 458, 459 (CCPA 1963).
- 5. It is noted that claims 42-46 and 48-57 are drawn to an apparatus capable of making such bonds not a method of forming the bonds.

Therefore the 102 rejection of claims 42-46 and 48-57 as anticipated by Koduri stands.

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6. In response to applicant's argument that Bonham teaches only that a plurality of wire interconnections are made from a plurality of first points on a component to a corresponding plurality of second points on a substrate rather than forming first and second wire bonds electrically connected to the second surface or formation of a second bond on the conductive bump, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See *In re Casey*, 370 F.2d 576, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 312 F.2d 937, 939, 136 USPQ 458, 459 (CCPA 1963).

7. It is noted that claims 42-46 and 48-57 are drawn to an apparatus capable of making such bonds not a method of forming the bonds.

Therefore the 102 rejection of claims 42-46 and 48-57 as anticipated by Bonham stands.

Allowable Subject Matter

8. Claims 1-8, 9-13 and 18-41 are allowed.

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Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynne Edmondson whose telephone number is (571) 272-1172. The examiner can normally be reached on Monday through Thursday from 6:30 a.m. to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lynne Edmondson Primary Examiner Art Unit 1725

LRE

LYNNE R. EDMONDSON JC PRIMARY EXAMINER
4/18/05